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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028m/CEMENT/2020 Date: 05.08.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of Work	:	Improvements to road and drains at Vemanna Layout and Muthurayaswamy Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	Cement
Sample Received on	:	03.08.2019
Period of Testing	:	03.08.2019 to 05.08.2019
Report Issue Date	:	05.08.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2019)	27.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028m/SAND-Gradation/2020 05.08.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of Work	:	Improvements to road and drains at Vemanna Layout and Muthurayaswamy Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
*Sample ID	:	Sand for masonry mortars
Test Method As Per	:	IS : 2116 : 1980 (RA-2017)
Sample Received on	:	03.08.2019
Date of Testing	:	05.08.2019
Report Issue Date	:	05.08.2019

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 2116 - 1980 (RA-2017)
4.75	100.00	100
2.36	98.80	90-100
1.18	94.90	70-100
600 Micron	82.00	40-100
300 Micron	33.40	5-70
150 Micron	10.60	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028m/AGG/GR/2020 05.08.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of Work	:	Improvements to road and drains at Vemanna Layout and Muthurayaswamy Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS : 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	03.08.2019
Date of Testing	:	05.08.2019
Report Issue Date	:	05.08.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.40	95-100	85-100
20	41.28	30-70	0-20
10	15.24	10-35	0-5
4.75	1.64	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/GMN/W.No.10/Steel/2020

08.08.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of work	:	Improvements to road and drains at Vemanna Layout and Muthurayaswamy Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	08.08.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.05	O.K	O.K

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Job No.: CTCE/BBMP/GMN/W.No.10/Steel/2020

08.08.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of work	:	Improvements to road and drains at Vemanna Layout and Muthurayaswamy Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	08.08.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	553	13.1	O.K	O.K

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028m/Cube/2020

10.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of the work	:	Improvements to road and drains at Vemanna Layout and Muthurayaswamy Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.09.2019
Report Issue Date	:	10.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.08.2019	10.09.2019	8.090	478.5	21.27
2	13.08.2019	10.09.2019	8.132	516.3	22.95
3	13.08.2019	10.09.2019	8.269	526.6	23.40

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* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.09.2019
Report Issue Date	:	10.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.08.2019	10.09.2019	8.236	475.5	21.13
2	13.08.2019	10.09.2019	8.339	480.9	21.37
3	13.08.2019	10.09.2019	8.415	511.4	22.73

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10.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.09.2019
Report Issue Date	:	10.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.08.2019	10.09.2019	8.380	505.6	22.47
2	13.08.2019	10.09.2019	8.490	514.2	22.85
3	13.08.2019	10.09.2019	8.225	529.6	23.54

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.09.2019
Report Issue Date	:	13.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2019	13.09.2019	8.322	498.8	22.17
2	16.08.2019	13.09.2019	8.405	516.3	22.95
3	16.08.2019	13.09.2019	8.226	534.6	23.76

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.09.2019
Report Issue Date	:	13.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2019	13.09.2019	8.125	485.6	21.58
2	16.08.2019	13.09.2019	8.325	504.6	22.43
3	16.08.2019	13.09.2019	8.405	519.6	23.09

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028m/Cube/2020 13.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of the work	:	Improvements to road and drains at Vemanna Layout and Muthurayaswamy Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.09.2019
Report Issue Date	:	13.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2019	13.09.2019	8.332	474.5	21.09
2	16.08.2019	13.09.2019	8.415	486.8	21.64
3	16.08.2019	13.09.2019	8.491	512.6	22.78

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028m/Cube/2020

16.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of the work	:	Improvements to road and drains at Vemanna Layout and Muthurayaswamy Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019
Report Issue Date	:	16.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.125	478.9	21.28
2	19.08.2019	16.09.2019	8.265	504.5	22.42
3	19.08.2019	16.09.2019	8.305	512.6	22.78

*Information is furnished by the Customer/Representative.

Note:

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16.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019
Report Issue Date	:	16.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.223	480.6	21.36
2	19.08.2019	16.09.2019	8.302	514.3	22.86
3	19.08.2019	16.09.2019	8.325	522.9	23.24

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
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* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019
Report Issue Date	:	16.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.332	504.5	22.42
2	19.08.2019	16.09.2019	8.449	512.6	22.78
3	19.08.2019	16.09.2019	8.245	524.9	23.33

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* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.09.2019
Report Issue Date	:	19.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2019	19.09.2019	8.115	511.6	22.74
2	22.08.2019	19.09.2019	8.229	534.9	23.77
3	22.08.2019	19.09.2019	8.305	507.9	22.57

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* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.09.2019
Report Issue Date	:	19.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2019	19.09.2019	8.115	486.3	21.61
2	22.08.2019	19.09.2019	8.206	512.2	22.76
3	22.08.2019	19.09.2019	8.305	522.9	23.24

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.09.2019
Report Issue Date	:	19.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2019	19.09.2019	8.115	474.5	21.09
2	22.08.2019	19.09.2019	8.295	485.6	21.58
3	22.08.2019	19.09.2019	8.339	506.9	22.53

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of the work	:	Improvements to road and drains at Vemanna Layout and Muthurayaswamy Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
* Sample ID	:	Ramp Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.09.2019
Report Issue Date	:	27.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.08.2019	27.09.2019	8.235	375.6	16.69
2	30.08.2019	27.09.2019	8.302	385.9	17.15
3	30.08.2019	27.09.2019	8.405	405.9	18.04

*Information is furnished by the Customer/Representative.

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* Sample ID	:	Ramp Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.09.2019
Report Issue Date	:	27.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.08.2019	27.09.2019	8.325	392.6	17.45
2	30.08.2019	27.09.2019	8.225	415.7	18.48
3	30.08.2019	27.09.2019	8.405	423.9	18.84

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Job No.: CTCE/BBMP/GMN/W.No.10/CSR-1028m/SAND-Gradatic

22.08.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. G. Madhava Naik,** Lakshmi Govinda Nilaya, Saraswathipura, 1st Cross, 1st Main Road, Chithradurga – 577501.
* Name of Work	:	Improvements to road and drains at Vemanna Layout and Muthurayaswamy Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated : 26.02.2019
*Sample ID	:	Sand For Pointing
Test Method As Per	:	IS : 1542 : 1992 (RA-2019)
Sample Received on	:	20.08.2019
Date of Testing	:	22.08.2019
Report Issue Date	:	22.08.2019

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	98.80	95-100
2.36	97.50	95-100
1.18	94.50	90-100
600 Micron	88.30	80-100
300 Micron	45.30	20-65
150 Micron	12.80	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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